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United States Patent [19]

Togawa et al.

[11] **Patent Number:** **5,918,008**[45] **Date of Patent:** **Jun. 29, 1999**[54] **STORAGE DEVICE HAVING FUNCTION FOR COPING WITH COMPUTER VIRUS**[75] Inventors: **Yoshifusa Togawa; Takayuki Miyamoto; Kuriko Nozawa**, all of Kawasaki, Japan[73] Assignee: **Fujitsu Limited**, Kawasaki, Japan[21] Appl. No.: **08/656,908**[22] Filed: **Jun. 3, 1996**[30] **Foreign Application Priority Data**

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[51] **Int. Cl.⁶** **G06F 11/00**[52] **U.S. Cl.** **395/186; 395/183.14**[58] **Field of Search** 395/183.14, 186, 395/187.01, 188.01; 380/3, 4[56] **References Cited****U.S. PATENT DOCUMENTS**

5,452,442 9/1995 Kephart 395/183.14

FOREIGN PATENT DOCUMENTS

62-224843 10/1987 Japan .

6-110718 4/1994 Japan .

6-168114 6/1994 Japan .

6-230959 8/1994 Japan .

6-242957 9/1994 Japan .

6-250861 9/1994 Japan .

8-016386 1/1996 Japan .

OTHER PUBLICATIONS

Peter Norton Symantec Corp., Norton Antivirus, 1992, Chapter 2, 3, 4, 6, B-4-B-7.

Primary Examiner—Robert W. Beausoliel, Jr.*Assistant Examiner*—Pierre Eddy Elisca*Attorney, Agent, or Firm*—Staas & Halsey[57] **ABSTRACT**

A storage device, having the function of coping with a computer virus which has the ability to prevent infection with a computer virus and properly deal with infection with a computer virus, comprises: an infection management table used to manage files stored on a disk to see if the files are infected with viruses; a table registering unit for receiving a result of detection from a virus checker for detecting if a file stored on a disk is infected with a virus, and for registering the result in the infection management table; a judging unit that when a use request is made externally for a file stored on the disk, references the infection management table so as to judge if the file is infected with a virus; and a prohibiting unit that when the judging unit judges that a file is infected with a virus, prohibits the use of the file.

51 Claims, 28 Drawing Sheets